

Title (en)

High tensile strength drawn steel wire with improved ductility.

Title (de)

Gezogener Stahldraht mit hoher Bruchfestigkeit und Duktilität.

Title (fr)

Fil d'acier tréfilé à haute résistance à la rupture et à ductilité modifiée.

Publication

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Application

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Abstract (en)

The high tensile drawn steel wire of the present invention contains 0.4 to 1.0% by weight of C, 2.0% or less by weight of Si, 0.2 to 2% by weight of Mn, 0.02% or less by weight of P, 0.02% or less by weight of S, and 0.01% or less by weight of N, and has a strength of 130 kgf/mm² or more and a residual compression stress of between (0.05 sigma + 23) and (0.35 sigma + 28) kgf/mm² on its surface, depending on its strength sigma. The steel wire has excellent ductility. The method of producing the steel wire comprises the step of applying a residual compression stress on its surface, preferably by rolling in a rolling machine (3).

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IPC 8 full level

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Citation (search report)

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